## INTERNATIONAL SEARCH REPORT

International Application No PC P 03/14252

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01B11/03 G01B5/008 G01B21/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01B B66D G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 659 220 A (BRONTE JOSEPH J ET AL) 21 April 1987 (1987-04-21)	1-6,8, 11,13, 14, 17-19, 22,25, 31-33
	column 2, line 57 - column 6, line 24; figures 1-3	31-33
X	US 6 442 503 B1 (BENGALA MORENO) 27 August 2002 (2002-08-27)	1-6,8, 11,13, 14, 17-19, 22,25,
	column 5, line 44 - column 7, line 39; figures 1-5	31-33
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Pointer documents are listed in the continuation of box c.	Patent family members are listed in annex.			
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "8" document member of the same patent family			
which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed				
Date of the actual completion of the international search	Date of mailing of the international search report			
22 April 2004	07. 07. 2004			
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rljswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Beyfuß, M			

## INTERNATIONAL SEARCH REPORT

International Application No
PEP 03/14252

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.							
ن * egory.	Chanon of document, with moleation, where appropriate, of the relevant passages	Relevant to claim No.					
X	US 5 297 055 A (JOHNSTONE RICHARD) 22 March 1994 (1994-03-22) column 6, lines 39-59 column 7, line 64 - column 9, line 13;	1-6,8, 11,13, 14, 17-19, 22,25, 31-33					
	column 7, line 64 - column 9, line 13; figures 4,5						
А	DE 10 11 130 B (FROELICH & KLUEPFEL MASCHINENF) 27 June 1957 (1957-06-27) paragraphs [0018] - [0023]; figures 1,2	1-33					
A	WO 02/25207 A (CHRISTOPH RALF; WERTH MESSTECHNIK GMBH (DE)) 28 March 2002 (2002-03-28) page 8, line 13 - page 14, line 2; figures 1-9	1-33					
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## INTERNATIONAL SEARCH REPORT

International Application No Part / EP 03/14252

02-04-2002

07-01-2004

28-03-2002 18-06-2003 25-03-2004

T					5-	
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4659220	Α	21-04-1987	DE EP JP	3584222 0179309 61099845	A2	31-10-1991 30-04-1986 17-05-1986
US 6442503	B1	27-08-2002	EP AT JP US	0851206 268464 10206123 6061645	T A	01-07-1998 15-06-2004 07-08-1998 09-05-2000
US 5297055	A	22-03-1994	AU AU CA CA DE DE JP JP KR	0524943	A A1 A1 D1 T2 A1 B2 T B1	12-05-1994 11-11-1991 21-10-1991 21-10-1991 27-06-1996 24-10-1996 03-02-1993 15-07-2002 19-09-2000 01-05-1999 31-10-1991
DE 1011130	В	27-06-1957	NONE			

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CN

WO

EP JP 1394302 A

1466673 T 0225207 A1

1319164 A1 2004509346 T

WO 0225207

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28-03-2002